

IN THE CLAIMS:

1. (CURRENTLY AMENDED) A device for measuring characteristics of ~~toolings a gap between a chuck and a roll in a seamer~~, said device comprising:

a radiation source ~~adapted to generate~~ capable of generating radiation;

~~means a diverter~~ for diverting said radiation so as to pass through a profile in the ~~toolings gap between a chuck and a roll in a seamer~~; and

a two-dimensional array detector adapted to receive ~~capable of receiving~~ said radiation that passed through the profile[;].

whereby the characteristics of ~~toolings the profile of the gap~~ are processed from the detected radiation that passes through the profile.

2. (CANCELLED)

3. (CURRENTLY AMENDED) The device as claimed in Claim 1, wherein said radiation is selected from [[a]] the group consisting of electromagnetic radiation, light radiation, [[or]] and laser light.

4. (ORIGINAL) The device as claimed in Claim 1, further comprising at least one beam expander so as to generate a coherent beam.

5. (ORIGINAL) The device as claimed in Claim 4, wherein said at least one beam expander is comprised of two lenses that expand the beam with a minimal dissipation.

6. (CURRENTLY AMENDED) The device as claimed in Claim 1, wherein said ~~means for diverting said radiation~~ diverter is selected from [[a]] the group consisting of ~~diverters such as a prism, mirror, lens,~~ [[or]] and fiber-optic.

7. (CURRENTLY AMENDED) The device as claimed in Claim 1, wherein said ~~means for diverting said radiation~~ diverter is a prism.
8. (CURRENTLY AMENDED) The device as claimed in Claim 7, wherein a first prism diverts the radiation towards the profile and wherein ~~said a~~ second prism diverts the radiation that passes through the profile.
9. (CURRENTLY AMENDED) The device as claimed in Claim 8, wherein said two-dimensional array detector and said source are positioned side by side and said first prism and said second prism are positioned in a predetermined distance and opposite to one another so as to form a bypass of said radiation.
10. (CANCELLED)
11. (CURRENTLY AMENDED) The device as claimed in Claim 1, wherein said two-dimensional array detector is a CCD camera.
12. (CURRENTLY AMENDED) The device as claimed in Claim 1, wherein the characteristics of ~~toolings~~ the gap are a distance between ~~the toolings~~ the chuck and the roll.
13. (CURRENTLY AMENDED) The device as claimed in Claim 1, wherein the characteristics of ~~toolings~~ the gap are the clearance between ~~the~~ toolings the chuck and the roll.
14. (CURRENTLY AMENDED) A method for measuring characteristics of ~~toolings~~ a gap between a chuck and a roll in a seamer comprising:
 - providing a radiation source ~~adapted to generate~~ capable of ~~generating~~ radiation;
 - providing a first ~~means~~ diverter for diverting said radiation so as to pass through a profile in ~~the toolings~~ the gap;

providing a second ~~means~~ diverter for diverting said radiation that passes through the profile; and

directing the diverted radiation to a two-dimensional array detector[[;]],

whereby the characteristics of the profile [[is]] are processed from the detected radiation that passes through the profile.

15. (CURRENTLY AMENDED) The method as claimed in Claim 14, wherein said radiation is selected from [[a]] the group consisting of electromagnetic radiation, light radiation, [[or]] and laser light.
16. [CANCELLED]
17. (CURRENTLY AMENDED) The method as claimed in Claim 14, wherein said ~~first means for diverting~~ diverter and said ~~second means for diverting~~ diverter are selected from [[a]] the group ~~comprising~~ consisting of a prism, mirror, lens, [[or]] and fiber-optic.